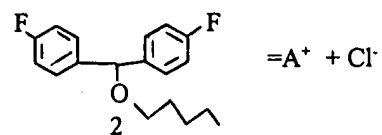
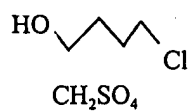
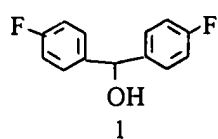
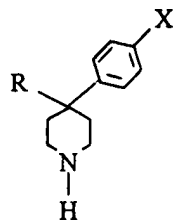


Scheme 1



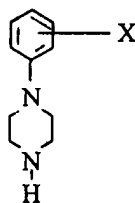
$=\text{A}^+ + \text{Cl}^-$

2



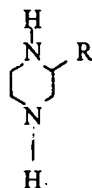
$\text{K}_2\text{CO}_3/\text{KI}$

2

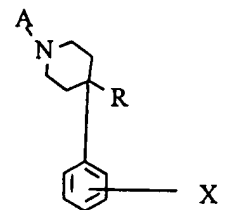


$\text{K}_2\text{CO}_3/\text{KI}$

2



$\text{K}_2\text{CO}_3/\text{KI}$

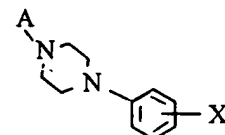


3A

3 $\text{R} = \text{COCH}_3$ $\text{X} = \text{H}$ 31525

4 $\text{R} = \text{OH}$ $\text{X} = 4\text{ Br}$ 31530

5 $\text{R} = \text{OH}$ $\text{X} = \text{H}$ 31531

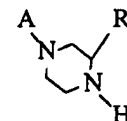


3B

6 $\text{X} = 2\text{F}$ 31526

7 $\text{X} = 4\text{F}$ 31527

8 $\text{X} = 3\text{-CF}_3$ 31532



3C

9 $\text{R} = \text{O}$ 31524

10 $\text{R} = \text{C}_6\text{H}_5$ 31533

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